

119,182

PATENT

SPECIFICATION



*Application Date, Feb. 11, 1918. No. 241118.*

*Complete Left, June 26, 1918.*

*Complete Accepted, Sept. 26, 1918.*

PROVISIONAL SPECIFICATION.

**A Means to Prevent the Warping of Filing Cabinet and other Drawer Fronts, or other Articles of Furniture or Joinery.**

I, RICHARD FAIRFAX STONE, Ferndale, Wellington, Salop, Works Manager, and Director of Richard Stone & Sons Ltd., Crown Works, Wellington, Salop, Furniture Manufacturers, do hereby declare the nature of this invention to be as follows:—

5 For prevention of warping & curling in wood such as is used for drawer fronts, or other articles of furniture or joinery. A strip of metal bent like angle iron to angle of  $90^\circ$  or thereabouts and inserted in the inside of the wood other than parallel to the grain, in such a manner that each of the flanges of the key rests at an angle of  $45^\circ$  or thereabouts to the surface of the wood. The outside 10 surface where the two flanges meet, of the strip of metal, alone being visible upon the surface of the wood.

Dated the 8th day of February, 1918.

R. F. STONE.

COMPLETE SPECIFICATION.

**15 A Means to Prevent the Warping of Filing Cabinet and other Drawer Fronts, or other Articles of Furniture or Joinery.**

I, RICHARD FAIRFAX STONE, of Ferndale, Wellington, in the County of Salop, Manufacturer, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention has for its object to provide improved means for preventing the warping or curling of filing cabinet and other drawer fronts or other articles of furniture and joinery.

The invention comprises the formation in the article of a pair of relatively 25 inclined slots or grooves which intersect at one surface of the article, and the insertion in such slots of a metal angle strip.

Referring to the accompanying sheet of explanatory drawings:—

Figure 1 shows diagrammatically in perspective a portion of a board or piece 30 of wood adapted to be stiffened in accordance with this invention; the portion shown may be part of a drawer front or other wood article which in service is liable to warp.

[Price 6d.]

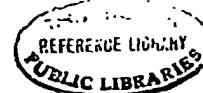


Figure 2 is a perspective view of the metal strip.

In carrying the invention into effect as shown, a pair of slots *a*, *b* which are relatively inclined to each other at an angle of  $90^{\circ}$  are cut into one surface of the article *c*, the two slots intersecting at the surface. The slots are cut across the grain of wood and are deep enough to accommodate an adequate 5 stiffener without materially diminishing the strength of the wood. Into the slot is inserted a metal angle piece *d* of right angle section. The length of this piece is preferably equal or approximately equal to the length of the slots, and the thickness is such that it can be pushed into the slot tightly without any liability to bursting the wood. 10

The metal piece offers no restraint to shrinkage of the wood in the direction of the length of the strip, but curling or warping is effectively resisted, with the result that the article is caused to retain its flat condition under any atmospheric or other changes which ordinarily tend to distort the wood. 15

The invention is applicable to various articles of furniture and joinery, and is not limited to any particular disposition of the slots or metal strip or of the angle between the sides of the strip or grooves. Obviously it is useless to cut the slots in the direction of the grain of the wood, but it is not essential to form them exactly at right angles to such direction as the stiffeners are effective in any position provided they intersect the grain. Ordinarily two or more 20 stiffeners suitably spaced are employed in each drawer front or the like. The number employed in any article may be varied to suit requirements. 25

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

1. Means for preventing warping of filing cabinet and other drawer fronts, or other articles of furniture or joinery, comprising a pair of relatively inclined slots or grooves which intersect at one surface of the article and a metal angle strip inserted in such slots, substantially as described.
2. Means for preventing warping of filing cabinet and other drawer fronts, 30 or other articles of furniture or joinery, comprising the combination and arrangement of parts, substantially as described and illustrated.

Dated this 21st day of June, 1918.

MARKS & CLERK.

[This Drawing is a reproduction of the Original on a reduced scale.]

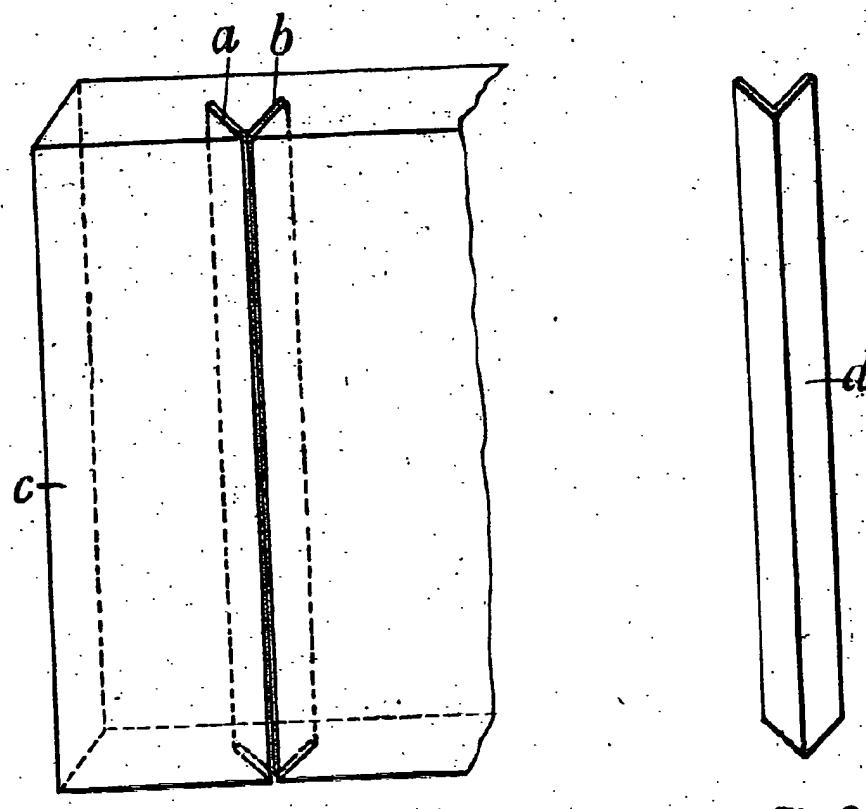


Fig.1

Fig.2